

**Notice of Allowability**

Application No.

10/822,572

Examiner

James R. Harvey

Applicant(s)

LLOYD ET AL.

Art Unit

2833

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed 4-3-07.
2. ☒ The allowed claim(s) is/are 1,3-7,9-11,13,14 and 16-19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20070403.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

***CANCELLATION OF CLAIMS***

\*\* The pervious cancellations of claims 2 and 12 has previously been made of record.

***Appeal Brief***

With respect to the interview dated 4-3-07, the terminal disclaimer dated 4-3-07, the amendment to claims dated 4-3-07 and the examiner's amendment addressed herein, the issues within the appeal brief are considered moot and the claims listed on PTO-37 are allowed.

***EXAMINER'S AMENDMENT***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312.

To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for the amendment was granted by Mr. Trop in an interview dated 4-20-07

2. The application has been amended as follows:

- Cancel claims 8 and 15.
- Amend claim 1, last line, by replacing the period with a semi-colon and inserting the following:

—said socket includes a body including an upwardly extending protrusion, said protrusion having a height less than the height of a solder ball for a ball grid array package. --.

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- Amend claim 11, last line, by replacing the period with a semi-colon and inserting the following:  
  
—said socket includes a body including an upwardly extending protrusion, said protrusion having a height less than the height of a solder ball for a ball grid array package. --.
- Amend claim 16, line 1; delete the numeral “15” and insert the numeral –11--.

### ***Reasons for Allowance***

- The following is an examiner's statement of reasons for allowance:
- The prior art does not show the socket includes a body including an upwardly extending protrusion and the protrusion having a height less than the height of a solder ball for a ball grid array package in combination with all the other elements of the claim and the examiner knows of no permissible motivation (e.g. improper hindsight) to combine the prior art such that the subject matter as a whole would have been obvious at the time the invention was made.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Interview Summary***

During the interview dated 4-3-07, the examiner discussed the rationale for applicant to provide a terminal disclaimer to avoid a double patenting rejection. During the interview dated 4-20-07, the examiner requested authorization to amend the claims to make them unobvious over Adachi et al. (6981881) and the other art of record.

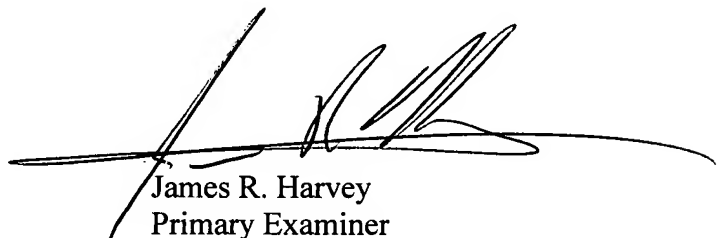
***Conclusion***

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to James R. Harvey whose telephone number is 571-272-2007. The examiner can normally be reached from 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800 extension 33.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2800.

- Applicant is encouraged to send correspondence through the USPTO fax number 571-273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James R. Harvey  
Primary Examiner

jrh  
April 20, 2007